

SEQUENCE LISTING

<110> BISHOP-HURLEY, SHARON L.
 SCHMIDT, FRANCIS J.
 SMITH, ARNOLD L.

<120> PHAGE-DISPLAY PEPTIDES AS NOVEL ANTIMICROBIAL AGENTS
 AGAINST HAEMOPHILUS INFLUENZAE

<130> UVMO:022US

<140> UNKNOWN
 <141> 2003-09-04

<150> 60,409,909
 <151> 2002-09-11

<160> 8

<170> PatentIn Ver. 2.1

<210> 1
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 1
 Ile Thr Phe Thr Gly
 1 5

<210> 2
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 2
 Ala Cys Gly Gly Ala Cys Ala Gly Ala Thr Gly Cys Ala Gly Ala Thr
 1 5 10 15
 Thr Gly Gly

<210> 3
 <211> 22
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 3

Cys Cys Gly Ala Gly Gly Cys Cys Ala Gly Thr Thr Gly Ala Gly Ala
1 5 10 15

Thr Cys Ala Gly Thr Cys
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<210> 4

<211> 333

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 4

Ala Glu Thr His Val Thr Gly Gly Ser Ala Gly His Thr Val Ser Gly
1 5 10 15

Phe Val Ser Leu Leu Ala Pro Gly Ala Lys Gln Asn Val Gln Leu Ile
20 25 30

Asn Thr Asn Gly Ser Trp His Leu Asn Ser Thr Ala Leu Asn Cys Asn
35 40 45

Asp Ser Leu Asn Thr Gly Trp Leu Ala Gly Leu Phe Tyr His His Lys
50 55 60

Phe Asn Ser Ser Gly Cys Pro Glu Arg Leu Ala Ser Cys Arg Pro Leu
65 70 75 80

Thr Asp Phe Asp Gln Gly Trp Gly Pro Ile Ser Tyr Ala Asn Gly Ser
85 90 95

Gly Pro Asp Gln Arg Pro Tyr Cys Trp His Tyr Pro Pro Lys Pro Cys
100 105 110

Gly Ile Val Pro Ala Lys Ser Val Cys Gly Pro Val Tyr Cys Phe Thr
115 120 125

Pro Ser Pro Val Val Val Gly Thr Thr Asp Arg Ser Gly Ala Pro Thr
130 135 140

Tyr Ser Trp Gly Glu Asn Asp Thr Asp Val Phe Val Leu Asn Asn Thr
145 150 155 160

Arg Pro Pro Leu Gly Asn Trp Phe Gly Cys Thr Trp Met Asn Ser Thr

	165		170		175
Gly Phe Thr Lys Val Cys Gly Ala Pro Pro Cys Val Ile Gly Gly Ala					
	180		185		190
Gly Asn Asn Thr Leu His Cys Pro Thr Asp Cys Phe Arg Lys His Pro					
	195		200		205
Asp Ala Thr Tyr Ser Arg Cys Gly Ser Gly Pro Trp Ile Thr Pro Arg					
	210		215		220
Cys Leu Val Asp Tyr Pro Tyr Arg Leu Trp His Tyr Pro Cys Thr Ile					
	225		230		235
Asn Tyr Thr Ile Phe Lys Ile Arg Met Tyr Val Gly Gly Val Glu His					
	245		250		255
Arg Leu Glu Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg Cys Asp Leu					
	260		265		270
Glu Asp Arg Asp Arg Ser Glu Leu Ser Pro Leu Leu Leu Thr Thr Thr					
	275		280		285
Gln Trp Gln Val Leu Pro Cys Ser Phe Thr Thr Leu Pro Ala Leu Ser					
	290		295		300
Thr Gly Leu Ile His Leu His Gln Asn Ile Val Asp Val Gln Tyr Leu					
	305		310		315
Tyr Gly Val Gly Ser Ser Ile Ala Ser Trp Ala Ile Lys					
	325		330		

<210> 5
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 5
 Ala Ser Pro Thr Tyr Arg Leu Tyr Ser Ala Ser Pro Ala Ser Pro Ala
 1 5 10 15
 Ser Pro Ala Ser Pro Leu Tyr Ser
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<210> 6
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 6

Gly Ser Arg Gly Lys His Thr Phe Val Arg Pro Thr Leu Val Phe
1 5 10 15

<210> 7

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 7

Phe Ile Ser Tyr Ser Ser Pro Ser His Met Gly Ala Arg Met Arg
1 5 10 15

<210> 8

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 8

Ala Ala Thr Thr Thr Ala Ala Thr Ala Cys Gly Ala Cys Thr Cys Ala
1 5 10 15

Cys Thr Ala Thr Ala Gly Gly Cys Ala Ala Ala Cys Gly Ala Cys Thr
20 25 30

Gly Thr Cys Cys Thr Gly Gly Cys Cys Gly Thr
35 40

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1 5 10 15

Thr Cys Ala Gly Thr Cys
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Asn Thr Asn Gly Ser Trp His Leu Asn Ser Thr Ala Leu Asn Cys Asn
35 40 45

Asp Ser Leu Asn Thr Gly Trp Leu Ala Gly Leu Phe Tyr His His Lys
50 55 60

Phe Asn Ser Ser Gly Cys Pro Glu Arg Leu Ala Ser Cys Arg Pro Leu
65 70 75 80

Thr Asp Phe Asp Gln Gly Trp Gly Pro Ile Ser Tyr Ala Asn Gly Ser
85 90 95

Gly Pro Asp Gln Arg Pro Tyr Cys Trp His Tyr Pro Pro Lys Pro Cys
 100 105 110

Gly Ile Val Pro Ala Lys Ser Val Cys Gly Pro Val Tyr Cys Phe Thr
 115 120 125

Pro Ser Pro Val Val Val Gly Thr Thr Asp Arg Ser Gly Ala Pro Thr
 130 135 140

Tyr Ser Trp Gly Glu Asn Asp Thr Asp Val Phe Val Leu Asn Asn Thr
 145 150 155 160

Arg Pro Pro Leu Gly Asn Trp Phe Gly Cys Thr Trp Met Asn Ser Thr
 165 170 175

Gly Phe Thr Lys Val Cys Gly Ala Pro Pro Cys Val Ile Gly Gly Ala
 180 185 190

Gly Asn Asn Thr Leu His Cys Pro Thr Asp Cys Phe Arg Lys His Pro
 195 200 205

Asp Ala Thr Tyr Ser Arg Cys Gly Ser Gly Pro Trp Ile Thr Pro Arg
 210 215 220

Cys Leu Val Asp Tyr Pro Tyr Arg Leu Trp His Tyr Pro Cys Thr Ile
 225 230 235 240

Asn Tyr Thr Ile Phe Lys Ile Arg Met Tyr Val Gly Gly Val Glu His
 245 250 255

Arg Leu Glu Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg Cys Asp Leu
 260 265 270

Glu Asp Arg Asp Arg Ser Glu Leu Ser Pro Leu Leu Leu Thr Thr Thr
 275 280 285

Gln Trp Gln Val Leu Pro Cys Ser Phe Thr Thr Leu Pro Ala Leu Ser
 290 295 300

Thr Gly Leu Ile His Leu His Gln Asn Ile Val Asp Val Gln Tyr Leu
 305 310 315 320

Tyr Gly Val Gly Ser Ser Ile Ala Ser Trp Ala Ile Lys
 325 330

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<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<211> 43
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Cys Thr Ala Thr Ala Gly Gly Cys Ala Ala Ala Cys Gly Ala Cys Thr
20 25 30

Gly Thr Cys Cys Thr Gly Gly Cys Cys Gly Thr
35 40